

NAME OF WORK:-Improvements to Roads and
RCC Drains at Babanagara Main and Cross Roads,
Dwarakanagara and Surrounding area in Ward
No.05

First and Final Bill

Quality Control Reports



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT						
NAME OF WORK: Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05						
SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
1	Cement	Materials				
		Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
4	Fine aggregate	Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
5	Steel	Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
6	Precast (100mm)	ReBend test	One Test		1	1
		Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	25 set /1051-2000 cum	1068.59	50	50
9	GSB	SIEVE ANALYSIS	One Test		1	1

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QC ABSTRACT						
NAME OF WORK: Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05						
SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
5	Steel	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	25 set /1051-2000 cum	1068.59	50	50
9	GSB	SIEVE ANALYSIS	One Test		1	1

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10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
11	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
12	BC	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
13	BITUMEN	Fire Point	One Test		1	1
		Rate of spread	One Test		1	1
14	TACK COAT	Rate of spread	One Test		1	1

Signature

ಇದರಲ್ಲಿ ಉಪಯೋಗಿಸಿದ
ಮಾಪಕಗಳು ಸರಿಯಾಗಿವೆ ಎಂದು
ಪರಿಶೀಲಿಸಲಾಗಿದೆ

Signature

ಇದರಲ್ಲಿ ಉಪಯೋಗಿಸಿದ
ಮಾಪಕಗಳು ಸರಿಯಾಗಿವೆ ಎಂದು
ಪರಿಶೀಲಿಸಲಾಗಿದೆ

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 24-10-20

Lab ID : CP-2020-11-20-41
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 21-10-20
Sample Type : Birla Super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 22-10-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	—
2	Fineness by Air permeability method (m ² /kg, Min)	249.5	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (I.e Chatelier's Method)	1.5mm	Not more than 10 mm

• The results obtained are satisfactory as per standard requirements.

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-11-20-41 Date: 19-11-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads,
Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area
in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road,
Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 21-10-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 22-10-20
Environmental Conditions during : Temperature: 26°C
test Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.6N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.4N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.6N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
****End of Report****

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-11-20-41 Date: 24-10-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 21-10-20

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)

IS: 2386 :1963(Part - 1,3,4) RA2011

IS 2386 Part 1: Particle Size and Shape

IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

IS 2386 Part 4: Mechanical Properties

21-10-20

Date of test

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken		15000		grams		Required as per IS 383:2016
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2020-11-20-41

Date: 24-10-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.56	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.23	—

* The results obtained are satisfactory as per standard requirements.

ಕರ್ತವ್ಯ ಪೂರ್ವಕವಾಗಿ
ಪರೀಕ್ಷಿಸಿ ದೃಢೀಕರಿಸಿದ ಈ ವರದಿ
24.10.2020

20.10.20
ಕರ್ತವ್ಯ ಪೂರ್ವಕವಾಗಿ
ಪರೀಕ್ಷಿಸಿ ದೃಢೀಕರಿಸಿದ ಈ ವರದಿ
24.10.2020 ಬೆಂಗಳೂರು-14



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2
****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-11-20-41 Date: 23-10-20

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Sample Type/ Size : 21-10-20

Reference to BIS codes : 20mm down size coarse aggregate

Date of test : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2754	3032	60.6	39.4	25-55
4	4.75 mm	1754	4786	95.7	4.3	0-10
5	Pan	214	5000	100	0	-

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Handwritten signatures and stamps, including a date stamp: 23.10.2020



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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2020-11-20-41

Date: 23-10-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.69	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.54	—
6	Water Absorption(%)	0.25	—
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

✓
ಕಾರ್ಯದ ನಿರ್ವಹಣೆ
ಮ.ಮ.ಪ. ಪ್ರಯೋಗಾಲಯ

23.10.20
ಕಾರ್ಯದ ನಿರ್ವಹಣೆ
ಪ್ರಯೋಗಾಲಯದ ಮೇಲೆ
ಮ.ಮ.ಪ. ಪ್ರಯೋಗಾಲಯ-24

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Authorized Signature
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-11-20-41 Date: 23-10-20

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Sample Type : 21-10-20

Reference to BIS codes : Fine Aggregate

Date of test : IS 383 : 2016 (Specification for Coarse and fine Aggregates)

Total weight taken : IS 2386 : 1963 (Part - 1, 3) RA2012

IS 2386 Part 1: Particle Size and Shape

IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	145	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	156	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	188	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	175	750	75.0	25.0	5-20	8-30	12-40	15-50
7	150 micron	162	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

Page 1/2

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2020-11-20-41

Date: 23-10-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.4	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	5.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

✓
KARTHIK RECHAN
23.10.2020

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23.10.2020

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Certificate No : TC-5548

Format No: CP/TF/01

Lab ID

TEST RESULTS OF STEEL

Project Name

: CP-2020-11-20-41

Date: 22-10-20

: Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference

: M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt

: BBMP/EE/BTP/WO/132/2020-21

Sample Type

: 21-10-20

Reference to BIS codes

: Sunvik

Date of test:

: IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

: 21-10-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

22-10-20
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

22-10-20
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-11-20-41 Date: 09-11-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 04-11-20
Sample Type /Size : Precast Cover Slab (100mm)
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 04/11/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-11-20-41 Date: 09-11-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 04-11-20
Sample Type /Size : Precast Cover Slab (250mm)
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 04/11/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 06/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 02-11-20

Sample Type /Size : Drain Bottom Slab Concrete, (1ST MAIN 1ST CROSS)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	151.77 X 151.39 X 151.10	22977	8.921	418.7	18.2	18.5
2	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	149.72 X 150.39 X 150.17	22517	8.094	427.3	19.0	
3	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	151.19 X 150.94 X 150.68	22822	8.479	417.7	18.3	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 27/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Sathesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 02-11-20

Sample Type /Size : Drain Bottom Slab Concrete, (1ST MAIN 1ST CROSS)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 28 Days Compressive Strength

IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	149.31 X 150.98 X 150.26	22542	8.039	520.1	23.1	22.9
2	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	150.31 X 149.06 X 150.47	22405	8.298	502.4	22.4	
3	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	149.28 X 149.12 X 151.00	22261	8.754	515.4	23.2	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 06/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 02-11-20

Sample Type /Size : Drain Bottom Slab Concrete, (1ST MAIN 2ND CROSS)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	150.28 X 151.62 X 150.57	22786	8.121	427.6	18.8	18.6
2	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	150.97 X 149.47 X 151.00	22566	8.094	416.4	18.5	
3	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	150.73 X 149.96 X 151.44	22603	8.479	420.7	18.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID

: CP-2020-11-20-41

Date: 27/11/2020

Project Name

: Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency

: Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference

: BBMP/EE/BTP/WO/132/2020-21

Date of Receipt

: 02-11-20

Customer ID

: Drain Bottom Slab Concrete, (1ST MAIN 2ND CROSS)

Sample Type /Size

: 150X150X150 mm

Sample grade/Age

: M20 / 28 Days Compressive Strength

Reference to BIS codes

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test

: 27/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	151.58 X 150.22 X 151.18	22770	8.039	525.8	23.1	22.8
2	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	150.29 X 149.97 X 150.96	22539	8.298	497.6	22.1	
3	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	150.07 X 150.89 X 150.04	22645	8.754	522.8	23.1	

* The results obtained are satisfactory as per standard requirements.

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 06/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 02-11-20

Customer ID : Drain Bottom Slab Concrete, (1ST MAIN Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2020

Date of test : 06/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	151.93 X	22866	8.121	431.6	18.9	18.9
					150.58 X					
					150.58					
2	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	149.69 X	22751	8.094	429.5	18.9	
					151.99 X					
					150.34					
3	Drain Bottom Slab Concrete	M20	30/10/2020	06/11/2020	151.01 X	22711	8.479	427.7	18.8	
					150.40 X					
					150.19					

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 27/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 02-11-20

Sample Type /Size : Drain Bottom Slab Concrete, (1ST MAIN Road)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 28 Days Compressive Strength

IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	149.81 X 151.69 X 149.17	22725	8.039	532.9	23.5	23.3
2	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	150.30 X 149.60 X 151.20	22484	8.298	504.7	22.4	
3	Drain Bottom Slab Concrete	M20	30/10/2020	27/11/2020	151.45 X 151.15 X 150.43	22892	8.754	547.2	23.9	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 07/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 02-11-20

Customer ID : Drain Bottom Slab Concrete, (1ST MAIN 2nd cross road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2020

07/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	149.55 X	22448	8.121	419.7	18.7	18.4
					150.11 X					
					149.91					
2	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	150.83 X	22763	8.094	418.7	18.4	
					150.92 X					
					149.16					
3	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	150.92 X	22839	8.479	416.0	18.2	
					151.33 X					
					150.92					

* The results obtained are satisfactory as per standard requirements.

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KARTHIK RECHAN
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Quality Manager

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KARTHIK RECHAN
Authorized Signatory
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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 28/11/2020
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 02-11-20
Customer ID : Drain Bottom Slab Concrete, (1ST MAIN 2nd cross road)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 28/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	149.46 X 151.36 X 149.89	22623	8.039	524.5	23.2	23.0
2	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	151.64 X 149.91 X 150.10	22733	8.298	504.4	22.2	
3	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	151.13 X 151.68 X 150.83	22925	8.754	538.5	23.5	

* The results obtained are satisfactory as per standard requirements.

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TESTED BY
28/11/2020

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28/11/2020

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 07/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 02-11-20

Sample Type /Size : Drain Bottom Slab Concrete, (1st main 1st cross road)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	149.21 X 151.53 X 151.64	22609	8.121	417.5	18.5	18.5
2	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	150.36 X 151.57 X 151.17	22790	8.094	426.6	18.7	
3	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	150.50 X 151.85 X 150.14	22853	8.479	416.0	18.2	

* The results obtained are satisfactory as per standard requirements.

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****End of Report****



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R KARTHIK RECHAN
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 28/11/2020
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Date of Receipt : BBMP/EE/BTP/WO/132/2020-21
Customer ID : 02-11-20
Sample Type /Size : Drain Bottom Slab Concrete, (1st main 1st cross road)
Sample grade/Age : 150X150X150 mm
Reference to BIS codes : M20 / 28 Days Compressive Strength
Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	151.57 X 150.06 X 151.07	22744	8.039	526.3	23.1	23.1
2	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	151.25 X 150.13 X 149.75	22706	8.298	508.5	22.4	
3	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	149.53 X 150.03 X 150.11	22433	8.754	532.8	23.8	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 07/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 02-11-20

Customer ID : Drain Bottom Slab Concrete, (1ST MAIN)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(kN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	150.95 X	22798	8.121	416.4	18.3	18.4
					151.03 X					
					151.34					
2	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	151.45 X	22773	8.094	429.8	18.9	
					150.37 X					
					150.68					
3	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	150.32 X	22620	8.479	410.6	18.2	
					150.47 X					
					150.68					

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/11/2020

Lab ID : CP-2020-11-20-41
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 02-11-20
Customer ID : Drain Bottom Slab Concrete, (1ST MAIN)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	149.93 X 151.20 X 151.16	22671	8.039	537.8	23.7	23.2
2	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	151.13 X 151.30 X 149.93	22866	8.298	506.6	22.2	
3	Drain Bottom Slab Concrete	M20	31/10/2020	28/11/2020	150.40 X 149.42 X 150.31	22473	8.754	533.7	23.7	

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
****End of Report****



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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 09/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete, (1ST MAIN 1ST CROSS)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2020

Date of test : 09/11/2020										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	02/11/2020	09/11/2020	150.26 X	22747	8.121	427.6	18.8	18.5
					151.39 X					
					150.36					
2	Drain Side Wall Concrete	M20	02/11/2020	09/11/2020	151.14 X	22859	8.094	411.8	18.0	
					151.25 X					
					149.77					
3	Drain Side Wall Concrete	M20	02/11/2020	09/11/2020	150.57 X	22510	8.479	418.9	18.6	
					149.50 X					
					151.39					

* The results obtained are satisfactory as per standard requirements.

Handwritten signature and stamp of the Quality Manager.



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 30/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R. Sathesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 04-11-20

Sample Type /Size : Drain Side Wall Concrete, (1ST MAIN 1ST CROSS)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 28 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	150.84 X 151.06 X 151.62	22786	8.039	541.6	23.8	23.3
2	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	151.25 X 151.89 X 149.28	22974	8.298	512.8	22.3	
3	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	151.74 X 150.00 X 149.11	22762	8.754	543.0	23.9	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/11/2020

* The results obtained are satisfactory as per standard requirements.

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[Signature]

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 30/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 04-11-20

Sample Type /Size : Drain Side Wall Concrete, (1ST MAIN 2ND CROSS)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 28 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	149.11 X 150.39 X 151.26	22424	8.039	526.4	23.5	23.0
2	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	150.70 X 151.90 X 150.60	22892	8.298	509.9	22.3	
3	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	149.76 X 149.30 X 151.13	22359	8.754	520.0	23.3	

* The results obtained are satisfactory as per standard requirements.

For Civil Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager



FOR CIVIL Pro.
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Quality Manager

Page 1/1
****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 09/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete, (1ST MAIN Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	02/11/2020	09/11/2020	149.97 X 151.05 X 149.43	22652	8.121	418.8	18.5	18.6
2	Drain Side Wall Concrete	M20	02/11/2020	09/11/2020	150.46 X 150.76 X 150.55	22683	8.094	420.3	18.5	
3	Drain Side Wall Concrete	M20	02/11/2020	09/11/2020	149.75 X 151.82 X 149.06	22735	8.479	428.6	18.9	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 30/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete, (1ST MAIN Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	149.81 X 150.39 X 150.53	22530	8.039	529.3	23.5	23.4
2	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	150.22 X 151.03 X 151.45	22688	8.298	521.4	23.0	
3	Drain Side Wall Concrete	M20	02/11/2020	30/11/2020	149.09 X 150.56 X 150.82	22447	8.754	530.4	23.6	

* The results obtained are satisfactory as per standard requirements.

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BY: [Signature]
DATE: 30/11/2020

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 10/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 05-11-20

Sample Type /Size : Drain Side Wall Concrete, (1ST MAIN 2nd cross road)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	03/11/2020	10/11/2020	150.24 X 149.52 X 149.02	22464	8.121	424.3	18.9	18.7
2	Drain Side Wall Concrete	M20	03/11/2020	10/11/2020	149.86 X 149.49 X 149.06	22404	8.094	419.6	18.7	
3	Drain Side Wall Concrete	M20	03/11/2020	10/11/2020	151.99 X 151.87 X 150.35	23083	8.479	423.6	18.4	

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41

Date: 01/12/2020

Project Name

Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency

M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference

BBMP/EE/BTP/WO/132/2020-21

Date of Receipt

05-11-20

Customer ID

Drain Side Wall Concrete, (1ST MAIN 2nd cross road)

Sample Type /Size

150X150X150 mm

Sample grade/Age

M20 / 28 Days Compressive Strength

Reference to BIS codes

IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	03/11/2020	01/12/2020	151.19 X 150.91 X 149.87	22816	8.039	530.6	23.3	23.2
2	Drain Side Wall Concrete	M20	03/11/2020	01/12/2020	149.42 X 151.26 X 149.44	22601	8.298	509.1	22.5	
3	Drain Side Wall Concrete	M20	03/11/2020	01/12/2020	149.48 X 149.89 X 150.06	22406	8.754	535.2	23.9	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 10/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 05-11-20

Sample Type /Size : Drain Side Wall Concrete, (2nd mainroad)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	03/11/2020	10/11/2020	150.83 X 150.06 X 149.40	22633	8.121	407.6	18.0	18.4
2	Drain Side Wall Concrete	M20	03/11/2020	10/11/2020	150.76 X 149.72 X 150.60	22572	8.094	422.3	18.7	
3	Drain Side Wall Concrete	M20	03/11/2020	10/11/2020	150.13 X 151.82 X 150.28	22793	8.479	419.8	18.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 01/12/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 05-11-20

Customer ID : Drain Side Wall Concrete, (2nd mainroad)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	03/11/2020	01/12/2020	150.56 X 149.24 X 151.48	22470	8.039	524.7	23.4	23.1
2	Drain Side Wall Concrete	M20	03/11/2020	01/12/2020	151.26 X 150.94 X 149.35	22831	8.298	508.4	22.3	
3	Drain Side Wall Concrete	M20	03/11/2020	01/12/2020	151.39 X 149.85 X 149.89	22687	8.754	539.9	23.8	

* The results obtained are satisfactory as per standard requirements.

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 13/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 09-11-20

Customer ID : Culvert Bottom Slab Concrete, (1ST MAIN 2nd cross road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Culvert Bottom Slab Concrete	M20	06/11/2020	13/11/2020	149.36 X 149.45 X 150.18	22322	8.121	404.9	18.1	18.6
2	Culvert Bottom Slab Concrete	M20	06/11/2020	13/11/2020	149.50 X 149.39 X 150.99	22333	8.094	415.7	18.6	
3	Culvert Bottom Slab Concrete	M20	06/11/2020	13/11/2020	151.50 X 150.33 X 149.32	22775	8.479	432.4	19.0	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 04/12/2020
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 09-11-20
Customer ID : Culvert Bottom Slab Concrete, (1ST MAIN 2nd cross road)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Slab Concrete	M20	06/11/2020	04/12/2020	150.32 X 150.61 X 151.17	22640	8.039	538.6	23.8	23.3
2	Culvert Bottom Slab Concrete	M20	06/11/2020	04/12/2020	151.86 X 150.07 X 151.91	22790	8.298	504.2	22.1	
3	Culvert Bottom Slab Concrete	M20	06/11/2020	04/12/2020	149.80 X 150.77 X 150.36	22585	8.754	539.6	23.9	

* The results obtained are satisfactory as per standard requirements.

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K. KARTHIK RECHAN
04.12.2020

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K. KARTHIK RECHAN
04.12.2020

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 13/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 09-11-20

Customer ID : Culvert Bottom Slab Concrete, (1ST MAIN)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Slab Concrete	M20	06/11/2020	13/11/2020	150.57 X 149.32 X 149.56	22483	8.121	421.4	18.7	18.6
2	Culvert Bottom Slab Concrete	M20	06/11/2020	13/11/2020	150.91 X 149.64 X 150.64	22582	8.094	427.3	18.9	
3	Culvert Bottom Slab Concrete	M20	06/11/2020	13/11/2020	151.05 X 149.82 X 149.83	22630	8.479	409.5	18.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 04/12/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 09-11-20

Customer ID : Culvert Bottom Slab Concrete, (1ST MAIN)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Bottom Slab Concrete	M20	06/11/2020	04/12/2020	150.56 X	22519	8.039	536.5	23.8	23.3
					149.57 X					
					151.28					
2	Culvert Bottom Slab Concrete	M20	06/11/2020	04/12/2020	150.50 X	22781	8.298	516.8	22.7	
					151.37 X					
					150.88					
3	Culvert Bottom Slab Concrete	M20	06/11/2020	04/12/2020	149.20 X	22257	8.754	520.2	23.4	
					149.18 X					
					149.37					

* The results obtained are satisfactory as per standard requirements.

For Civil Pro
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 17/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Agency : Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Customer's Reference : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Date of Receipt : BBMP/EE/BTP/WO/132/2020-21

Customer ID : 12-11-20

Sample Type /Size : Culvert Side Wall Concrete, (1ST MAIN 2nd cross road)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	10/11/2020	17/11/2020	150.77 X 151.23 X 150.22	22801	8.121	418.6	18.4	18.2
2	Culvert Side Wall Concrete	M20	10/11/2020	17/11/2020	151.43 X 149.05 X 149.75	22571	8.094	408.0	18.1	
3	Culvert Side Wall Concrete	M20	10/11/2020	17/11/2020	151.12 X 151.45 X 151.63	22887	8.479	418.0	18.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 08/12/2020
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Sathesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 12-11-20
Customer ID : Culvert Side Wall Concrete, (1ST MAIN 2nd cross road)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test : 08/12/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	10/11/2020	08/12/2020	150.33 X 151.66 X 151.87	22799	8.039	542.8	23.8	23.4
2	Culvert Side Wall Concrete	M20	10/11/2020	08/12/2020	150.82 X 149.71 X 151.59	22578	8.298	508.3	22.5	
3	Culvert Side Wall Concrete	M20	10/11/2020	08/12/2020	149.45 X 151.91 X 151.69	22704	8.754	544.5	24.0	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 17/11/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 12-11-20

Customer ID : Culvert Side Wall Concrete,(1ST MAIN)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Sirength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	10/11/2020	17/11/2020	150.40 X 149.91 X 151.33	22547	8.121	420.6	18.7	18.7
2	Culvert Side Wall Concrete	M20	10/11/2020	17/11/2020	149.65 X 150.06 X 149.90	22457	8.094	426.3	19.0	
3	Culvert Side Wall Concrete	M20	10/11/2020	17/11/2020	149.54 X 149.61 X 150.38	22372	8.479	413.2	18.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-11-20-41 Date: 08/12/2020

Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 12-11-20

Customer ID : Culvert Side Wall Concrete, (1ST MAIN)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Culvert Side Wall Concrete	M20	10/11/2020	08/12/2020	150.92 X 150.94 X 150.66	22780	8.039	544.3	23.9	23.4
2	Culvert Side Wall Concrete	M20	10/11/2020	08/12/2020	151.02 X 150.38 X 150.41	22711	8.298	516.4	22.7	
3	Culvert Side Wall Concrete	M20	10/11/2020	08/12/2020	150.55 X 150.57 X 151.35	22667	8.754	536.0	23.6	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-2020-11-20-41 Date: 21-12-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 19-12-20
Type of Mix : GSB (Granular Sub Base)
Date of test : 19-12-20
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

Handwritten signature and stamp:
2020/12/21
2020/12/21
2020/12/21

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End of Report



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2020-11-20-41 Date: 26-12-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 24-12-20
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 24-12-20
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

✓
Sathya Constructions
Bangalore

W. Satheesh
Sathya Constructions
Bangalore

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Certificate No.: TC-5548

IS: 2386 Part IV

Date of test : 24-12-20

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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*End of Report

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Certificate No.: TC-5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-2020-11-20-41 Date: 26-12-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05
Improvements to RCC Drain and Roads at Dwarakanagara Surrounding area in Ward No.05, Byatarayanapura Sub Division
Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference : BBMP/EE/BTP/WO/132/2020-21
Date of Receipt : 24-12-20
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 24-12-20

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2020-11-20-41 Date: 31-12-20
Project Name : Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding Area in Ward No 05

Improvements to RCC Drain and Roads at Dwarakanagara
Surrounding area in Ward No.05, Byatarayanapura Sub Division

Agency : M/s Sathya Constructions, (Prop) R Satheesh, No:600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/132/2020-21

Date of Receipt : 29-12-20

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 29-12-20

Test Results

Sl.no	Name of Test	Result	Requirements as per IS: 1201-1220
1	Penetration at 25°C, in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

TEST REPORT NO. CP/TF/01
DATE: 31-12-2020

29.12.20
R KARTHIK RECHAN
AUTHORIZED SIGNATORY
29.12.2020



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R KARTHIK RECHAN
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